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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,428	12/31/2003	Derek J. Daw	PA094-US	1761
27405	7590	07/18/2005	EXAMINER	
THEROX, INC. 2400 MICHELSON DRIVE IRVINE, CA 92612				RAEVIS, ROBERT R
		ART UNIT		PAPER NUMBER
		2856		

DATE MAILED: 07/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/750,428	DAW ET AL.
Examiner	Art Unit	
Robert R. Raevis	2856	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 6-30-05, 7-8-05.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-28 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-5,8,9,11-15,17-28 is/are rejected.

7) Claim(s) 6,7,10 and 16 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Claims 1,2,11-13,3-5,8,9,14,15,17-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Gilcher et al or Natwick et al, and further in view of Kline-Schoder et al.

Gilcher (col. 4, lines 35-45) and Natwick et al (col. 2, lines 5-10) teach that bubble detectors may be calibrated to respond to particular size; but do not provide particulars of calibration device to provide a standard, and do not refer to different viscosities.

As to claims 1,3,4,14,15,18,22, it would have been obvious to employ Kline's system of Figure 13 to provide a calibration reference for either Gilcher or Natwick because Kline teaches that a system employing conduit 112, peristaltic pump 118, and bubble forming device ("GLASS TUBE" and "WATER JET") will produce bubbles having a particular size and number for testing. In addition, as to claim 1, either (1) Kline's system (especially, sight tube 112 of Figures 13,6) is capable of passing flow material of different viscosities, and thus is configured to do so, or (2) Kline's system (especially, sight tube 112) is configured to pass water having different size bubbles of either "helium or air" col. 15, line 8), and thus is configured to pass flow materials (water and air mixture, or water and helium mixture; or even either air or helium) of different viscosities through the conduit as claimed. In addition, as to claim 14, either (1) Kline's system (especially, sight tube 112 of Figures 13,6) is capable of passing flow material of different viscosities, and thus is configured to do so, or (2) Kline's system (especially, sight tube 112) is configured to pass water having different size bubbles of either

"helium or air" col. 15, line 8), and thus is configured to pass flow materials (water and air mixture; or water and helium mixture; or even either air or helium) of different viscosities through the conduit as claimed..

As to claim 17, use of compressed air in Klein is suggestive of use of an air pump to allow for use of environmental air as a source.

As to claims 2,11, note (col. 16, lines 13-17) that Kline refers to use of a second sensor to test a first.

As to claims 12,13, it would have been obvious to record bubble sensor data for subsequent analysis. In addition, note Kline's camera type measuring device (col. 16, line 15) that us used to confirm measurements of an UT instrument.

As to claims 5,8, note the Kline employs a block that holds the "GLASS TUBE".

As to claims 9,19, if the "WATER TANK" has no lid, the open top provides for damping between the pump 118 and bubbles exiting "GLASS TUBE". In the alternative, if there is a sealed lid, there is gas in the upper portion of the "TANK" which provides damping.

As to claims 20,21, note that Kline employs a UT measurement (col. 16, line 14), and those UT measurements are confirmed with video microscopy. UT measurements employ many signals, both transmitting and receiving.

As to claim 23, calibration requires comparing. As to claims 24,28, particle detectors are known to calibration factors to calculate a final size, suggestive of calibrating by determining such a factor.

As to claim 25, note the various flows on col. 16, lines 10-13 of Kline.

As to claims 26,27,note that bubble size and number are controlled on col. 16, lines 4-7 of Kline.

Claims 6,7,10,16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROWS

RAEVIS